INDEX TO VOLUME XXIV

A

Acculumation of oil in limestone: Howard, 2: 316.

Actinometer, wedge-type, 2: 292-295.

Adams, Howard W.—Dry weather operation of a sewage treatment plant, 2: 296-299.

Affiliated High School Science Clubs, 1: 60.

Affiliated societies, 1: 60.

Affiliation, committee on, 1: 5.

Age of the black shale in south central Kentucky: Savage and Sutton, 2: 316.

Agriculture (program of papers for twenty-fifth annual meeting), 3: 599.

Ambystoma, skull characters in, 2: 203-221.

American Association for the Advancement of Science, delegates to, 1: 6.

American Association for the Advancement of Science, report of delegate to, 4: 627.

American Indians of the Illinois River Valley, pathology of, 2: 371-375.

Andrews, Clement W.—Memoir, 1: 29.

Another Huronian unconformity in northeastern Minnesota: Sleight, 2: 316.

Annual meeting (twenty-fifth), minutes of, 4: 615-618.

Anthropology (program of papers for twenty-fifth annual meeting), 3: 599.

Anthropology section, organization of, 4: 610.

Antipodals in zinnia: Palm, 2: 143-147.

Argentine pattern of terrene occupancy, peripheral items in, 2: 410-423.

Arithmetic, psychology of, 2: 524-527.

Arithmetic, summary of experimental investigations in, 2: 510-513.

Ashburn, T. Q.—Co-ordination of rail, water, and motor transportation, 2: 536-549.

Athletic ability, tests of, 2: 495-500.

Audrieth, L. F., Meints, R. E., and Jukkola, E. E.—Non-aqaeous solvents as media for chemical reactions, 2: 248-251.

Auditing, report of committee on, 4: 623.

B

Bacteriophage in staphylococcic infections, uses of, 2: 466-473.

Badger, C. J.—Some observations on lespedeza in southern Illinois, 2: 138-140.

Baker, Frank Collins — Pleistocene history of the terrestrial mollusca of Fulton County, Illinois, 2: 149-155.

Balduf, W. V.—Carnivorous moths and butterflies, 2: 156-164.

Ball, Clayton—Preliminary microscopic investigation of Illinois Coal, 2: 327-330.

Ball, John R., and Dunn, P. H.—Some new species of *Camarotoechia* from the Bainbridge limestone of Missouri, 2: 380-391.

Bigger, J. H.—Grape colaspis as a corn pest in Illinois, 2: 235-240.

Blanchard, W. O.—Responsibility of environmental as compared with human factors in the decline of Iberia, 2: 424-428.

Bogart, Ernest L.—Economic history of the Illinois River Valley, 2: 530-535.

Boruff, C. S., with Buswel, A. M.—Pollution studies of Illinois River, 2: 575-582.

Botanical specimens, drier for, 2: 103-107.

Botany, papers in, 2: 71-146.

Botany (program of papers for twenty-fifth annual meeting), 3: 600.

Brown, George A.—Peril of education through experience, 2: 501-505

Buchholz, J. T.—A practical drier for botanical specimens, 2: 103-107.
Buchholz, J. T.—Mechanics of growth in the stem-tip of seed plants, 2: 71.
Burgy, J. Herbert—Geographical location as a control in the New England cotton manufacturing industry, 2: 434-439.
Buswell, A. M., and Boruff, C. S.—Pollution studies of Illinois River, 2: 575-582.
Butterflies and moths, carnivorous, 2: 156-164.

C

Cahn, A. R.—A new species of turtle for Illinois (read by title), 2: 148.
Cahokia Mounds, a plea for the, 2: 376-377.
Carman, A. P.—An experiment to detect a possible effect of a transverse electric field on light, 2: 290-291.
Carnivorous moths and butterflies: Balduf, 2: 156-164.
Chappelear, Claude S.—Health subject matter in the natural sciences, 2: 485-494.
Chase, Virginius H.—Frederick Brendel, the pioneer botanist of Peoria, 2: 72-79.
Chemical messengers—a special consideration: Ivy, 1: 14-17.
Chemical reactions, non-aqueous solvents as a media for, 2: 248-251.
Chemical research in ice manufacture: Keyes, 2: 266-274.
Chemistry curriculum, influence of local industries on, 2: 275-278.
Classification of research problems on dielectrics with special reference to the investigation of cables and condensers: Tykociner and Paine, 2: 300-309.
Clinical observation on the portal system in large consumers of sugars: Iknayan, 2: 460-465.
Coal ball studies, review of, 2: 317-320.
Coal, microscopic investigation of, 2: 327-330.
Coal, plant structures of, 2: 321-326.
Coming of man: Cole, 3: 598.
Committees for 1931-1932, 1: 5-6.
Comparative efficiency of wehnelt cathodes in residual air and hydrogen (*Abst.*): Young, 2: 284-285.
Comparison of science curricula in European and American schools: Neureiter, 2: 256-285.
Conservation, committee on, 1: 5.
Conservation Council of Chicago, deledate to, 1: 6.
Conservation Council of Chicago, report of delegate to, 4: 629.
Conservation of Illinois areas of botanical value: Cowles, 2: 86-89.
Conservation, report of committee on, 4: 626.
Constitution and by-laws, 1: 34-36.
Constitution, proposed amendments to, 3: 603; 4: 611; 616-617.
Contributions of the physical sciences to human welfare: Knipp, 1: 18-22.
Co-ordination of rail, water, and motor transportation: Ashburn, 2: 536-549.
Corey, Stephen Maxwell—A summary of recent experimental studies of learning and memory, 2: 514-518.
Corn pest, grape colaspis as a, 2: 235-241.
Correlation of host plant and color pattern of *Rhodobaenus tredecimpunctatus*: Mohr, 2: 226-227.
Cotton manufacturing industry, geographical location as a control in New England, 2: 434-439.
Council meetings, minutes of, 1: 23-26; 4: 609-614.
Cowles, Henry C.—Conservation of Illinois areas of botanical value, 2: 86-89.
Croneis, Carey, and McCormack, John—Fossil Holothruoidea, 2: 316.
Crook, Alja Robinson—Memoir, 1: 31.

D

Denninger, Henri Stearns—The pathology of the prehistoric American Indians of the Illinois River Valley, *2*: 371-375.

Determination of methanol in the presence of ethyl alcohol: Mortimer, *2*: 279-283.

Dielectrics, classification of research problems on, *2*: 300-309.

Di-isopropyl ether as a solvent in the Grignard reaction: Rathman and Leighty, *2*: 312-315.

Distinctive skull characters in species of the genus Ambystoma: Hoheisel, *2*: 203-221.

Dry weather operation of a sewage treatment plant: Adams, *2*: 296-299.

Dunn, P. H., with Ball, John R.—Some new species of *Camarotoechia* from the Bainbridge limestone of Missouri, *2*: 380-391.

E

Ecological Survey, committee on, *1*: 5.

Ecological Survey, report of committee on, *4*: 625.

Economic history of the Illinois River Valley: Bogart: *2*: 530-535.

Economics, papers in, *2*: 529-595.

Economics (program of papers for twenty-fifth annual meeting), *3*: 600:

Editor, report of, *4*: 624.

Efficient hydrogen sulfide generator: Ransom, *2*: 310-311.

Ekblaw, George E.—Landslides near Peoria, *2*: 350-353.

Electricity in the Illinois River Valley: Hight, *2*: 550-556.

Electrodeless ring discharge — magnetic, inductive, and centrifugal action: Knipp, *2*: 286-289.

Englehart, Max D.—Summary of experimental investigations in arithmetic, *2*: 510-513.

Environmental adjustments in the valley of the lower Rhone: Ward, *2*: 429-433.

European and American schools, comparison of science curricula in, *2*: 256-261.

Ewer, S. Judson—Life-forms of Illinois plants, *2*: 108-121.

Exchange list of State Academies, *1*: 62.

Experiment to detect a possible effect of a transverse electric field on light: Carman, *2*: 290-291.

External morphological study of *Eremotylus macrurus* (Linn) (read by title): Park, *2*: 148.

F

Ferguson, Harry F.—Sanitation and conservation of the waters of Illinois, *2*: 440.

Fertilizers, influence upon the reaction of soils, *2*: 127-129.

Fingernail shell, life history of, *2*: 165-166.

Fishing industry of Illinois River (The): Thompson, *2*: 583-591.

Flood control, problems in, *2*: 564-574.

Fossil Holothuroidea: Croneis and McCormack, *2*: 316.

Foster, T. Dale—Observations on the life history of a fingernail shell of the genus Sphaerium (*Abst.*), *2*: 165-166.

Frederick Brendel, the Pioneer botanist of Peoria: Chase, *2*: 72-79.

Furrow, C. L.—Observations on the hermaphrodite apparatus of *Valvata tricarinata* (Say), *2*: 241-246.

G

Geographical location as a control in the New England cotton manufacturing industry: Burgy, *2*: 434-439.

Geography, papers in, *2*: 392-439.

Geography (program of papers for twenty-fifth annual meeting), 3: 600.
Geology, papers in, 2: 316-391.
Geology (program of papers for twenty-fifth annual meeting), 3: 601.
Glenn, P. A.—Use of temperature accumulations as an index to the time of appearance of certain insect pests during the season, 2: 167-180.
Graham, Robert, with James, W. A., and Thorp, Frank Jr.—Unusual lesions in swine Brucelliasis, 2: 441-443.
Grant. Francis R., and Hague, Stella M.—List of mosses from Vermilion County, Illinois, 2: 122-123.
Grape colaspis as a corn pest in Illinois: Bigger, 2: 235-240.
Greeley, Samuel A.—Illinois River sanitation, 2: 583-591.
Griffith, Coleman R.—Tests of athletic ability, 2: 495.
Grignard reaction, di-isopropyl ether as a solvent in, 2: 312-315.

H

Haas, W. H.—The present status of the Mississippi problem, 2: 393-400.
Habitats and communities in Illinois, 2: 80-85.
Hague, Stella M., with Grant, Francis R.—List of mosses from Vermilion County, Illinois, 2: 122-123.
Haplosporangium decipiens Thaxter and other microfungi from Illinois: Palm, 2: 141-142.
Harman, Jacob A.—Some problems in flood control, 2: 564-574.
Hayes, William P.—Present status of the classification of immature insects, 2: 181-202.
Health subject matter in the natural sciences: Chappelear, 2: 485-494.
Hermaphrodite apparatus of *Valvata tricarinata*, 2: 241-246.
Hernia in *Necturus maculosus*: Hoheisel, 2: 222-225.
Herrick, Ruth—Skin diseases among students, 2: 480-483.
High school science and clubs, committee on, 1: 6.
High school science and clubs, report of committee on, 4: 626.
Hight, Eugene S.—Electricity in the Illinois River Valley, 2: 550-556.
Hoheisel, William F. — Distinctive skull characters in species of the genus *Ambystoma*, 2: 203-221.
Hoheisel, William F.—Herna in *Necturus maculosus*, 2: 222-225.
Horrabin, Waldo—Influence of local industries on the determination of the chemistry curriculum, 2: 275-278.
Host plant and color pattern of *Rhodobaenus tredecimpunctatus*, 2: 226-227.
Howard, V. M.—Accumulation of oil in limestone, 2: 316.
Hydrogen sulfide generator, 2: 310-311.

I

Iberia, factors in the decline of, 2: 424-428.
Ice Manufacture, chemical research in, 2: 266-274.
Iknayan, N. C.—Clinical observations on the portal system in large consumers of sugars, 2: 460-465.
Illinois areas of botanical value, conservation of, 2: 86-89.
Illinois plants, life-forms of, 2: 108-121.
Illinois River, fishing industry of, 2: 592-595.
Illinois River, pollution studies, 2: 575-582.
Illinois River sanitation: Greeley, 2: 583-591.
Illinois River Valley, conservation in, 2: 587-591.
Illinois River Valley, economic history of, 2: 530-535.
Illinois River Valley, electricity in, 2: 550-556.

Illinois River Valley Indians, pathology of, 2: 371-375.
Illinois River Valley, land utilization in, 2: 557-563.
Influence of fertilizers upon the reaction of soils: Snider, 2: 127-129.
Influence of local industries on the determination of the chemistry curriculum: Horrabin, 2: 275-278.
Insect pests, use of temperature accumulations as an index to time of appearance, 2: 167-180.
Insects, classification of immature, 2: 181-202.
Instructions to authors, 3: 604.
Ivy, A. C.—Chemical messengers, a special consideration, 1: 14-17.

J

James, W. A., Thorp, Frank, Jr., and Graham, Robert—Unusual lesions in swine Brucelliasis, 2: 441-443.
Janson, A. A.—Uses of bacteriophage in staphylococcic infections, 2: 466-473.
Jelliff, Fred R.—Research, its opportunities and rewards, 1: 7-13.
Joannides, Minas—Relation of the dog to public health, 2: 444-459.
Johnson, T. Arthur, with Swanson, A. M.—X-ray observation on sterility after lipiodol injections, 2: 474-479.
Jukkola, E. E., with Audrieth, L. F., and Meintz, R. E.—Non-aqueous solvents as media for chemical reactions, 2: 248-251.
Junior Section, constitution and by-laws, 1: 37-38.
Junior section meeting, 4: 618-621.
Junior Section (program for twenty-fifth annual meeting), 3: 603.

K

Keyes, D. B.—Chemical research in ice manufacture, 2: 266-274.
Klingbeil, Herbert L.—Significance of reading ability at the college level (read by title), 2: 484.
Knipp, Charles T.—Contributions of the physical sciences to human welfare, 1: 18-22.
Knipp, Charles T.—Electrodeless ring discharge—magnetic, inductive, and centrifugal action, 2: 286-289.
Krout, Maurice H.—Symbolic gestures in the clinical study of personality, 2: 519-523.

L

Landslides near Peoria: Ekblaw (Geo. E.), 2: 350-353.
Land utilization in the Illinois River Basin: Stewart, 2: 557-563.
Largest known ostracod (The): Scott, 2: 378-379.
Learning and memory, statistical summary of studies, 2: 514-518.
Lee, Denard—Some new species of corals from the Niagaran strata of the Hudson Bay region, 2: 360-362.
Legislation and finance, committee on, 1: 6.
Legislation and finance, report of committee on, 4: 626.
Leighton, M. M.—Some Peorian loess deposits (read by title), 2: 316.
Leighty, J. A., with Rathmann, F. H. Di-isopropyl ether as a solvent in the Grignard reactions, 2: 312-315.
Lespedeza in southern Illinois, 2: 138-140.
Levees, plant succession on, 2: 94-102.
Librarian, report of, 4: 623.
Libraries receiving the Transactions, 1: 61.
Life-forms of Illinois plants: Ewer, 2: 108-121.
List of mosses from Vermilion County, Illinois: Grant and Hague, 2: 122-123.

M

McCabe, Louis C.—Some plant structures of coal, 2: 321-326.
McClure, Perry S.—The magnetometer in Illinois, 2: 341-349.

McCormack, John, with Croneis, Carey—Fossil Holothuroidea, 2: 316.

Magnetometer in Illinois (The): McClure, 2: 341-349.

Maurer, Siegfried, and Tsai, Loh Seng—Vitamin B. deficiency and learning ability, 2: 440.

Mechanics of growth in the stem-tip of seed plants: Buchholz, 2: 71.

Medicine and Public Health, papers in, 2: 440-483.

Meints, R. E., with Audrieth, L. F., and Jukkola, E. E.—Non-aqueous solvents as media for chemical reactions, 2: 248-251.

Membership, committee on, 1: 5.

Membership, report of committee on, 4: 625.

Members listed as of September, 1931, 1: 43-60.

Mentality of insects as an ecological factor (read by title): Metcalf, 2: 148.

Mesic rock-ravine area in East Central Illinois (A), (read by title): Stover, 2: 71.

Messenger, Helen R.—Use of the probability-table in eliminating poor students from teachers colleges, 2: 506-509.

Metcalf, C. L.—Mentality of insects as an ecological factor (read by title), 2: 148.

Michelson, Albert A., Memoir, 1: 33.

Miller, J. W.—Progress report on the watermelon wilt project in Illinois, 2: 124-126.

Mississippi [River] problem, status of, 2: 393-400.

Mode of oxidation of organic acids: Reedy, 2: 262-265.

Moorehead, Warren King—A plea for the Cahokia Mounds, 2: 376-377.

Morh, Carl—Correlation of host plant and color pattern of *Rhodobaenus tredecimpunctatus* (Ill.) (Coleoptera, Rhyncophoridae), 2: 226-227

Mortimer, F. S.—Determination of methanol in the presence of ethyl alcohol, 2: 279-283.

Mosses from Vermilion County, 2: 122-123.

Moths and butterflies, carnivorous, 2: 156-164.

N

National forest movement in Illinois, 3: 598.

Natural sciences, health subject matter in, 2: 485-494.

Necturus maculosus, hernia in, 2:222-225.

Needham, C. E.—A study of the New Richmond sandstone from two localities in Wisconsin, 2: 363-368.

Neureiter, P. R.—Comparison of science curricula in European and American schools, 2: 256-261.

New species of turtle for Illinois (read by title): Cahn, 2: 148.

Noé, A. C.—Review of American coal ball studies, 2: 317-320.

Non-aqueous solvents as media for chemical reactions: Audrieth, Meints, and Jukkola, 2: 248-251.

Norton, E. A., and Smith, R. S.—Relationship between soil and native vegetation in Illinois, 2: 90-93.

O

Observations on the life history of fingernail shell of the genus Sphaerium: Foster, 2: 165-166.

Officers for 1931-1932, 1: 5.

O'Hanlon, Sister Mary Ellen: Supplements to the undergraduate courses in biology, 2: 71.

Organic acids, mode of oxidation of, 2: 262-265.

Ostracod, the largest known, 2: 378-379.

P

Paine, E. B., with Tykociner, J. Tykocinski—Classification of research problems on dielectrics with special

reference to the investigation of cables and condensers, 2: 300-309.
Paleo-ecology of a Wisconsin and an Illinois bog, 2: 130-137.
Pallial sinuses of *Composita argentia*: Weller, 2: 354-359.
Palm, B. T.—Antipodals in zinnia, 2: 143-147.
Palm, B. T.—*Haplosporangium decipiens* Thaxter and other microfungi from Illinois, 2: 141-142.
Park, A. R., An external morphological study of *Eremotylus macrurus* (Linn) (read by title), 2: 148.
Past Officers, First to Twenty-fourth meetings inclusive, 1: 39-41.
Pathology of the prehistoric American Indians of the Illinois River Valley (The): Denninger, 2: 371-375.
Pelluet, Dixie—Plant succession at Taupaushaw, Nantucket (read by title), 2: 71.
Pennsylvanian overlap in the Rock Island region, 2: 331-340.
Pepoon, H. S.—The status of our knowledge of the Illinois flora (read by title), 2: 71.
Peril of education through experience: Brown, 2: 501-505.
Peripheral items in the Argentine pattern of terrene occupancy: Platt, 2: 410-423.
Physics and chemistry, papers in, 2: 247-415.
Physics and Chemistry (program of papers for twenty-fifth annual meeting), 3: 601.
Plant succession on levees in the Illinois River Valley: Turner, 2: 94-102.
Plant succession at Taupaushaw, Nantucket (read by title): Pelluet, 2: 71.
Platt, Robert S.—Peripheral items in the Argentine pattern of terrene occupancy, 2: 410-423.
Plea for the Cahokia Mounds: Moorehead, 2: 376-377.
Pleistocene history of the terrestrial mollusca of Fulton County, Illinois: Baker, 2: 149-155.
Poggi, E. Muriel—Settlement and development of the prairie province of Illinois, 2: 401-409.
Pollution studies of Illinois River: Buswell and Boruff, 2: 575-582.
Potthoff, Edward F.—Psychology of arithmetic in the light of recent experimentation, 2: 524-527.
Practical drier for botanical specimens: Buchholz, 2: 103-107.
Prairie province of Illinois, settlement and development of, 2: 401-409.
Pre-Cretaceous soil horizon in western Illinois: Sutton, 2: 316.
Preliminary microscopic investigation of Illinois coal: Ball, 2: 327-330.
Preliminary report on the paleo-ecology of a Wisconsin and an Illinois bog: Voss, 2: 130-137.
Present status of the classification of immature insects: Hayes, 2: 181-202.
Present status of the Mississippi problem: Haas, 2: 393-400.
Probability-table, use in eliminating poor students, 2: 506-509.
Progress report on the watermelon wilt project in Illinois: Miller, 2: 124-126.
Psychology and Education, papers in, 2: 484-527.
Psychology and Education (program of papers for twenty-fifth annual meeting), 3: 602.
Psychology of arithmetic in the light of recent experimentation: Potthoff, 2: 524-527.
Publications, committee on, 1: 6.
Publications, report of committee on, 4: 624.

Q

Quantitative collections, statistical analysis of, 2: 228-234.
Question of a Pennsylvanian overlap in the Rock Island region: Wanless, 2: 331-340.

R

Ransom, James H.—An efficient hydrogen sulfide generator, 2: 310-311.

Rathmann, F. H., and Leighty, J. A.—Di-isopropyl ether as a solvent in the Grignard reaction, 2: 312-315.

Reagan, Albert B.—Ruins and pictographs in Nine Mile Canyon, Utah, 2: 369-370.

Recent developments in the application of X-rays to chemistry and industry: Stillwell, 2: 252-255.

Reedy, J. H.—The mode of oxidation of organic acids, 2: 262-265.

Relation of the dog to public health: Joannides, 2: 444-459.

Relationship between soil and native vegetation in Illinois: Norton and Smith, 2: 90-93.

Research, its opportunities and rewards: Jelliff, 1: 7-13.

Resolutions, report of committee on, 4: 630.

Responsibility of environmental as compared with human factors in the decline of Iberia: Blanchard, 2: 424-428.

Review of American coal ball studies: Noé, 2: 317-320.

Rhone, environmental adjustments in the valley of the Lower, 2: 429-433.

Ruins and pictographs in Nine Mile Canyon, Utah: Reagan, 2: 369-370.

S

Sanitation and conservation of the waters of Illinois: Ferguson, 2: 440.

Savage, T. E., and Sutton, A. H.—Age of the black shale in south central Kentucky, 2: 316.

Scott, Harold W.—The largest known ostracod, 2: 378-379.

Section chairmen for the 1932 meeting, 1: 6.

Settlement and development of the prairie province of Illinois: Poggi, 2: 401-409.

Sewage treatment plant, dry weather operation, 2: 296-299.

Significance of reading ability at the college level (read by title): Klingbeil, 2: 484.

Skin diseases among students: Herrick, 2: 480-483.

Sleight, Virgil — Another Huronian unconformity in northeastern Minnesota, 2: 316.

Smith, Clarence R.—A wedge-type actionmeter, 2: 292-295.

Smith, R. S., with Norton, E. A.—Relationship between soil and native vegetation in Illinois, 2: 90-93.

Snider, H. J.—Influence of fertilizers upon the reaction of soils, 2: 127-129.

Soil and native vegetation, relationship between, 2: 90-93.

Some new species of *Camarotoechia* from the Bainbridge limestone of Missouri: Ball and Dunn, 2: 380-391.

Some new species of corals from the Niagaran strata of the Hudson Bay region: Lee, 2: 360-362.

Some new species of corals from the Niagaran strata of the Hudson Bay region (read by title): Lee, 2: 316.

Some observations on lespedeza in southern Illinois: Badger, 2: 138-140.

Some observations on the hermaphrodite apparatus of *Valvata tricarinata* (Say): Furrow, 2: 241-246.

Some Peorian loess deposits (read by title): Leighton, 2: 316.

Some plant structures of coal: McCabe, 2: 321-326.

Some problems in flood control: Harman, 2: 564-574.

State Hall of Fame, committee on, 1: 6.

Statistical analysis of quantitative collections as a means of interpreting life histories: Van Cleave, 2: 228-234.

Statistical summary of recent experimental studies of learning and memory: Corey, 2: 514-518.
Status of our knowledge of the Illinois flora (read by title): Pepoon, 2: 71.
Stewart, Charles L.—Land utilization in the Illinois River Basin, 2: 557-563.
Stillwell, Charles W.—Recent developments in the application of X-rays to chemistry and industry, 2: 252-255.
Stover, E. L.—A mesic rock-ravine area in east central Illinois (read by title), 2: 71.
Strategic habitats and communities in Illinois: Vestal, 2: 80-85.
Study of the New Richmond sandstone from two localities in Wisconsin; Needham, 2: 363-368.
Summary of experimental investigations in arithmetic: Englehart, 2: 510-513.
Supplements to the undergraduate courses in biology: O'Hanlon, 2: 71.
Sutton, A. H.—A pre-cretaceous soil horizon in western Illinois, 2: 316.
Sutton, A. H., with Savage, T. E.—Age of the black shale in south central Kentucky, 2: 316.
Swanson, A. M., and Johnson, T. Arthur—X-ray observations on sterility after lipiodol injections, 2: 474-479.
Swine Brucelliasis, unusual lesion in, 2: 441-443.
Symbolic gestures in the clinical study of personality: Krout, 2: 519-523.

T

Terrestrial mollusca of Fulton County, Pleistocene history of 2: 149-155.
Tests of athletic ability: Griffith, 2: 495-500.
Thompson, David H.—The fishing industry of Illinois River, 2: 583-591.
Thorp, Frank Jr., with James, W. A., and Graham, Robert—Unusual lesions in swine Brucelliasis, 2: 441-443.
Transactions, back numbers bought by Academy, 4: 614.
Transactions, cost of publication 1930-31, 4: 609, 611.
Transportation, co-ordination of, 2: 536-549.
Transverse electric field, effect on light, 2: 290-291.
Treasurer, report of, 4: 622.
Tsai, Loh Seng, and Maurer, Siegfried—Vitamin B deficiency and learning ability, 2: 440.
Turner, Lewis M.—Plant succession on levees in the Illinois River Valley, 2: 94-102.
Twenty-fifth annual meeting, program, 3: 597-604.
Tykociner, J. Tykocinski, and Paine, E. B.—Classification of research problems on dielectrics with special reference to the investigation of cables and condensers, 2: 300-309.

U

Unusual lesions in swine Brucelliasis: James, Thorp, and Graham, 2: 441-443.
Use of temperature accumulations as an index to the time of appearance of certain insect pests during the season: Glenn, 2: 167-180.
Use of the probability-table in eliminating poor students from teachers colleges: Messenger, 2: 506-509.
Uses of bacteriophage in staphylococcic infections: Janson, 2: 466-473.

V

Van Cleave, Harley J.—Statistical analysis of quantitative collections as a means of interpreting life histories, 2: 228-234.
Vestal, A. G.—Strategic habitats and communities in Illinois, 2: 80-85.

Vitamin B deficiency and learning ability: Maurer and Tsai, 2: 440.
Voss, John—Preliminary report on the paleo-ecology of a Wisconsin and an Illinois bog, 2: 130-137.

W

Wanless, H. R.—The question of a Pennsylvanian overlap in the Rock Island region, 2: 331-340.
Ward, Elizabeth Erb—Environmental adjustments in the valley of the lower Rhone, 2: 429-433.
Watermelon wilt project, report on, 2: 124-126.
Wedge-type actinometer: Smith, 2: 292-295.
Wehnelt cathodes, comparative efficiency in residual air and hydrogen, 2: 284-285.
Weller, J. Marvin—Pallial sinuses of *Composita argentia*, 2: 354-359.

X, Y, Z

X-ray observations on sterility after lipiodol injections: Swanson and Johnson, 2: 474-479.
X-rays, recent development in application to chemistry and industry, 2: 252-255.
Young, O. B.—Comparative efficiency of wehnelt cathodes in residual air and hydrogen (*Abst.*), 2: 284-285.
Zinnia, antipodals in, 2: 143-147.
Zoology, papers in, 2: 148-246.
Zoology (program of papers for twenty-fifth annual meeting), 3: 602.